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(54) Title: SUBSTITUTED BENZOPYRAN DERIVATIVES FOR THE TREATMENT OF INFLAMMATION

$$\begin{array}{c|c}
R^2 & A^{\frac{1}{6}} & A^{\frac{1}{5}} & A & R^{\frac{1}{2}} \\
& A^{\frac{1}{4}} & A & A^{\frac{1}{2}} & R^{\frac{1}{2}}
\end{array}$$

(57) Abstract

A class of benzopyran derivatives is described for use in treating cyclooxygenase-2 mediated disorders. Compounds of particular interest are defined by Formula (I'), wherein X, A¹, A², A³, A⁴, R, R", R¹ and R² are as described in the specification.

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aralkylaminosulfonyl, lower heteroaralkylaminosulfonyl, 5or 6- membered heteroaryl, lower hydrooxyalkyl, optionally substituted phenyl and 5- or 6- membered nitrogen containing heterocyclosulfonyl;

wherein R⁵ is selected from hydrido, lower alkyl, halo, lower haloalkyl, lower alkoxy, and phenyl; and

wherein R⁶ is selected from hydrido, halo, cyano, hydrooxyiminomethyl, lower hydroxyalkyl, lower alkynyl, phenylalkynyl, lower alkyl, lower alkoxy, formyl and phenyl;

or an isomer or pharmaceutically acceptable salt thereof.

A class of compounds of particular interest consists of those compounds of Formula IIc wherein R³ is selected from hydrido, and chloro; wherein R⁴ is selected from chloro, methyl, tert-butyl, methylthio, trifluoromethyl, difluoromethyl, pentafluoromethyl, trifluoromethylsulfide, trifluoromethooxy, cyano, substituted or unsubstituted phenylcarbonyl, and substituted or unsubstituted phenyl; wherein R⁵ is selected from hydrido, methyl, tert-butyl, chloro; and wherein R⁶ is selected from hydrido, chloro, thienyl, hydroxyiminomethyl, substituted or unsubstituted phenyl; or an isomer or pharmaceutically acceptable salt thereof.

A family of specific compounds of particular interest

25 within Formula I consists of compounds and pharmaceuticallyacceptable salts thereof as follows:

6-chloro-2-trifluoromethyl-2N-1-benzonyman-2-carbonalic

6-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

7-ethyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

7-methyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic
acid;

- 2,7-bis(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 7-bromo-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 6-chloro-7-methyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid:

- 8-(1-methylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 6-chloro-7-(1,1-dimethylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 5 6-chloro-8-(1-methylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 8-ethoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic
 acid;
- 7-(1,1-dimethylethyl)-2-trifluoromethyl-2H-1-benzopyran-3carboxylic acid;
 - 6-bromo-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 8-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic
 acid;
- 8-bromo-6-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-trifluoromethoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 8-fluoro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic
 acid;
 - 5,7-dichloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 7,8-dichloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 7-isopropyloxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 8-phenyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid:
- 7,8-dimethyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6,8-bis(1,1-dimethylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 7-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

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7-(1-methylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-
     carboxylic acid;
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- 7-phenyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 5 6-chloro-7-ethyl-2-trifluoromethyl-2H-1-benzopyran-3carboxylic acid;
 - 8-ethyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-chloro-8-ethyl-2-trifluoromethyl-2H-1-benzopyran-3carboxylic acid;
- 10 6-chloro-7-phenyl-2-trifluoromethyl-2H-1-benzopyran-3carboxylic acid;

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- 6,7-dichloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 6,8-dichloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6,8-dibromo-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6,8-dimethoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic
- 20 6-nitro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-amino-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - ethyl 6-amino-2-trifluoromethyl-2H-1-benzopyran-3carboxylate;
 - 6-chloro-8-methyl-2-trifluoromethyl-2H-1-benzopyran-3carboxylic acid;
 - 8-chloro-6-methyl-2-trifluoromethyl-2H-1-benzopyran-3carboxylic acid;
 - 8-chloro-6-methoxy-2-trifluoromethyl-2H-1-benzopyran-3carboxylic acid;
- 6,8-difluoro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic 30 acid:
 - 6-bromo-8-chloro-2-trifluoromethyl-2H-1-benzopyran-3carboxylic acid;
- 8-bromo-6-fluoro-2-trifluoromethyl-2H-1-benzopyran-3-35 carboxylic acid;

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8-bromo-6-methyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid:

- 8-bromo-5-fluoro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 5 6-chloro-8-fluoro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-bromo-8-methoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 7-(N,N-diethylamino)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-[[(phenylmethyl)amino]sulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-[(dimethylamino)sulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 6-aminosulfonyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

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- 6-(methylamino)sulfonyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 6-[(4-morpholino)sulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 6-[(1,1-dimethylethyl)aminosulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 6-[(2-methylpropyl)aminosulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 25 6-methylsulfonyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 8-chloro-6-[[(phenylmethyl)amino]sulfonyl]-2trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-N, N-diethylaminosulfonyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-phenylacetyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-(2,2-dimethylpropylcarbonyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

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- 6,8-dichloro-7-methoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 6-chloro-2-trifluoromethyl-2H-1-benzothiopyran-3-carboxylic acid;
- 5 6-[[(2-furanylmethyl)amino]sulfonyl]-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-[(phenylmethyl)sulfonyl]-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;
 - 6-[[(phenylethyl)amino]sulfonyl]-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;
 - 6-iodo-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-chloro-8-iodo-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 8-bromo-6-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-formyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-chloro-8-formyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid:
- 6-bromo-7-(1,1-dimethylethyl)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;
 - 5,6-dichloro-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-cyano-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-hydroxymethyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid:
 - 6-(difluoromethyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 30 2,6-bis(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 5,6,7-trichloro-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6,7,8-trichloro-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;

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- 6-(methylthio)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 6-(methylsulfinyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 5 5,8-dichloro-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-(pentafluoroethyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid:
 - 6-(1,1-dimethylethyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 2-(trifluoromethyl)-6-[(trifluoromethyl)thio]-2H-1benzopyran-3-carboxylic acid;
 - 6,8-dichloro-7-methyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 6-chloro-2,7-bis(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 5-methoxy-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-benzoyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-(4-chlorobenzoy1)-2-(trifluoromethy1)-2H-1-benzopyran-3-carboxylic acid;
 - 6-(4-hydroxybenzoyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 25 6-phenoxy-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 8-chloro-6-(4-chlorophenoxy)-2-trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;
 - 2-(trifluoromethyl)-6-[4-(trifluoromethyl)phenoxy)-2H-1benzopyran-3-carboxylic acid;
 - 6-(4-methoxyphenoxy)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-(3-chloro-4-methoxyphenoxy)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;

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- 6-(4-chlorophenoxy)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 8-chloro-2-(trifluoromethyl)-6-[4-(trifluoromethyl)phenoxy]-2H-1-benzopyran-3-carboxylic acid;
- 5 6-chloro-8-cyano-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-chloro-8-[(hydroxyimino)methyl]-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-chloro-8-(hydroxymethyl)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;

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- 8-(1H-benzimidazol-2-yl)-6-chloro-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 7-(1,1-dimethylethyl)-2-(pentafluoroethyl)-2H-1-benzopyran-3-carboxylic acid;
- 15 6-chloro-8-(methoxymethyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-chloro-8-(benzyloxymethyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-chloro-8-ethenyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-chloro-8-ethynyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-chloro-8-(2-thienyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 25 6-chloro-8-(2-furanyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-chloro-8-(5-chloro-1-pentynyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-chloro-8-(1-pentynyl)-2-(trifluoromethyl)-2H-1-benzopyran-.
 3-carboxylic acid;
 - 6-chloro-8-(phenylethynyl)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;
 - 6-chloro-8-(3,3-dimethyl-1-butynyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;

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- 6-chloro-8-[(4-chlorophenyl)ethynyl]-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 6-chloro-8-[(4-methoxyphenyl)ethynyl]-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 5 6-(phenylethynyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-chloro-8-(4-chlorophenyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-chloro-8-(3-methoxyphenyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;

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- 6-chloro-8-[(4-methylthio)phenyl]-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 6-chloro-8-[(4-methylsulfonyl)phenyl]-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 6-chloro-8-phenyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-bromo-8-fluoro-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-(4-fluorophenyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-phenyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 8-chloro-6-fluoro-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 25 6,8-diiodo-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-(5-chloro-2-thienyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-(2-thienyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-(4-chlorophenyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-(4-bromophenyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;

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6-(ethynyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic
     acid:
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- 6-methyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid:
- 5 6-chloro-8-(4-methoxyphenyl)-2-trifluoromethyl-2H-1benzopyran-3-carboxylic acid:
 - 6-chloro-2-(trifluoromethyl)-4-ethenyl-2H-1-benzopyran-3carboxylic acid;
 - 6-chloro-2-(trifluoromethyl)-4-phenyl-2H-1-benzopyran-3carboxylic acid;
 - 6-chloro-4-(2-thienyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-(2,2,2-trifluoro-1-hydroxyethyl)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;
 - 6-methyl-2-(trifluoromethyl)-2H-1-benzothiopyran-3carboxylic acid:
 - 6,8-dimethyl-2-(trifluoromethyl)-2H-1-benzothiopyran-3carboxylic acid:
- 6-(1,1-dimethylethyl)-2-(trifluoromethyl)-2H-1-20 benzothiopyran-3-carboxylic acid;
 - 7-methyl-2-(trifluoromethyl)-2H-1-benzothiopyran-3carboxylic acid;
 - 6,7-dimethyl-2-(trifluoromethyl)-2H-1-benzothiopyran-3carboxylic acid;
 - 8-methyl-2-(trifluoromethyl)-2H-1-benzothiopyran-3carboxylic acid:
 - 2-(trifluoromethyl)-2H-1-benzothiopyran-3-carboxylic acid;
 - 6-chloro-7-methyl-2-(trifluoromethyl)-2H-1-benzothiopyran-3carboxylic acid;
 - 7-chloro-2-(trifluoromethyl)-2H-1-benzothiopyran-3carboxylic acid;
 - 6,7-dichloro-2-(trifluoromethyl)-2H-1-benzothiopyran-3carboxylic acid;

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2-(trifluoromethyl)-6-[(trifluoromethyl)thio]-2H-1-
          benzothiopyran-3-carboxylic acid;
     6,8-dichloro-2-trifluoromethyl-2H-1-benzothiopyran-3-
          carboxylic acid;
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     6-chloro-1,2-dihydro-2-(trifluoromethyl)-3-
          quinolinecarboxylic acid;
    6,8-dichloro-1,2-dihydro-2-(trifluoromethyl)-3-
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          quinolinecarboxylic acid;
    6,7-difluoro-1,2-dihydro-2-(trifluoromethyl)-3-
          quinolinecarboxylic acid;
    6-iodo-1,2-dihydro-2-(trifluoromethyl)-3-quinolinecarboxylic
         acid;
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    6-bromo-1,2-dihydro-2-(trifluoromethyl)-3-
         quinolinecarboxylic acid;
    1,2-dihydro-6-(trifluoromethoxy)-2-(trifluoromethyl)-3-
         quinolinecarboxylic acid:
    6-(trifluoromethyl)-1,2-dihydro-2-(trifluoromethyl)-3-
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         quinolinecarboxylic acid;
    6-cyano-1,2-dihydro-2-(trifluoromethyl)-3-
         quinolinecarboxylic acid;
    6-chloro-1,2-dihydro-1-methyl-2-(trifluoromethyl)-3-
         quinolinecarboxylic acid;
    6-chloro-1,2-dihydro-2-(trifluoromethyl)-1-[[4-
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         (trifluoromethyl)phenyl]methyl]-3-quinolinecarboxylic
         acid;
    6-chloro-1-[(4-chlorophenyl)methyl]-1,2-dihydro-2-
         (trifluoromethyl)-3-quinolinecarboxylic acid;
    6-chloro-1,2-dihydro-2-(trifluoromethyl)-1-[[4-
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         (methoxy)phenyl]methyl]-3-quinolinecarboxylic acid;
    6-chloro-1-[(4-cyanophenyl)methyl]-1,2-dihydro-2-
         (trifluoromethyl)-3-quinolinecarboxylic acid;
    6-chloro-1,2-dihydro-1-[(4-nitrophenyl)methyl]-2-
         (trifluoromethyl)-3-quinolinecarboxylic acid;
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6-chloro-1,2-dihydro-1-ethyl-2-(trifluoromethyl)-3-quinolinecarboxylic acid;
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6-chloro-2-(triflouromethyl)-1,2-dihydro[1,8]napthyridine-3-carboxylic acid;

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- 2-trifluoromethyl-2H-naphtho[1,2-b]pyran-3-carboxylic acid;
- 2-trifluoromethyl-3H-naphtho[2,1-b]pyran-3-carboxylic acid;
- 2-trifluoromethyl-2H-naphtho[2,3-b]pyran-3-carboxylic acid;
- 5-(hydroxymethyl)-8-methyl-2-(trifluoromethyl)-2H-

pyrano[2,3-c]pyridine-3-carboxylic acid;

- 6-(trifluoromethyl)-6h-1,3-dioxolo[4,5-g][1]benzopyran-7-carboxylic acid; and
- 3-(trifluoromethyl)-3H-benzofuro[3,2-f][1]benzopyran-2-carboxylic acid.

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A preferred family of specific compounds of particular interest within Formulas I and I' consists of compounds as follows:

- (S)-6-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-7-ethyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-7-methyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic
 acid;
- 25 (S)-2,7-bis(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-7-bromo-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-7-methyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-8-(1-methylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-7-(1,1-dimethylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

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- (S)-6-chloro-8-(1-methylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- (S)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- (S)-8-ethoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic
 acid;
 - (S)-7-(1,1-dimethylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-bromo-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 10 (S)-8-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-8-bromo-6-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- (S)-6-trifluoromethoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-8-fluoro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-5,7-dichloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid:
- 20 (S)-7,8-dichloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-7-isopropyloxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- (S)-8-phenyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-7,8-dimethyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid:
 - (S)-6,8-bis(1,1-dimethylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 30 (S)-7-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-7-(1-methylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- (S)-7-phenyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

- (S)-6-chloro-7-ethyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-8-ethyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 5 (S)-6-chloro-8-ethyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-7-phenyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6,7-dichloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6,8-dichloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6,8-dibromo-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 15 (S)-6,8-dimethoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-nitro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- (S)-6-amino-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-ethyl 6-amino-2-trifluoromethyl-2H-1-benzopyran-3-carboxylate;
 - (S)-6-chloro-8-methyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 25 (S)-8-chloro-6-methyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-8-chloro-6-methoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6,8-difluoro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-bromo-8-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-8-bromo-6-fluoro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

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- (S)-8-bromo-6-methyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- (S)-8-bromo-5-fluoro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 5 (S)-6-chloro-8-fluoro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-bromo-8-methoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-7-(N,N-diethylamino)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-[[(phenylmethyl)amino]sulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-[(dimethylamino)sulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 15 (S)-6-aminosulfonyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

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- (S)-6-(methylamino)sulfonyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- (S)-6-[(4-morpholino)sulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- (S)-6-[(1,1-dimethylethyl)aminosulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- (S)-6-[(2-methylpropyl)aminosulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 25 (S)-6-methylsulfonyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-8-chloro-6-[[(phenylmethyl)amino]sulfonyl]-2trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- (S)-6-N, N-diethylaminosulfonyl-2-trifluoromethyl-2H-1benzopyran-3-carboxylic acid;
 - (S)-6-phenylacetyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-(2,2-dimethylpropylcarbonyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid:

- (S)-6,8-dichloro-7-methoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- (S)-6-chloro-2-trifluoromethyl-2H-1-benzothiopyran-3-carboxylic acid;
- - (S)-6-[(phenylmethyl)sulfonyl]-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;
 - (S)-6-[[(phenylethyl)amino]sulfonyl]-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-iodo-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-8-iodo-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 15 (S)-8-bromo-6-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-formyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- (S)-6-chloro-8-formyl-2-(trifluoromethyl)-2H-1-benzopyran-3carboxylic acid;
 - (S)-6-bromo-7-(1,1-dimethylethyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-5,6-dichloro-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 25 (S)-6-cyano-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-hydroxymethyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- (S)-6-(difluoromethyl)-2-(trifluoromethyl)-2H-1-benzopyran-30 3-carboxylic acid;
 - (S)-2,6-bis(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-5,6,7-trichloro-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;

- (S)-6,7,8-trichloro-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- (S)-6-(methylthio)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 5 (S)-6-(methylsulfinyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-5,8-dichloro-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-(pentafluoroethyl)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;
 - (S)-6-(1,1-dimethylethyl)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid:
 - (S)-2-(trifluoromethyl)-6-[(trifluoromethyl)thio]-2H-1-benzothiopyran-3-carboxylic acid:
- 15 (S)-6,8-dichloro-7-methyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-2,7-bis(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-5-methoxy-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-benzoyl-2-(trifluoromethyl)-2H-1-benzopyran-3carboxylic acid;
 - (S)-6-(4-chlorobenzoyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 25 (S)-6-(4-hydroxybenzoyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-phenoxy-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- (S)-8-chloro-6-(4-chlorophenoxy)-2-trifluoromethyl)-2H-1-30 benzopyran-3-carboxylic acid;
 - (S)-2-(trifluoromethyl)-6-[4-(trifluoromethyl)phenoxy)-2H-1benzopyran-3-carboxylic acid;
 - (S)-6-(4-methoxyphenoxy)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;

- (S)-6-(3-chloro-4-methoxyphenoxy)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- (S)-6-(4-chlorophenoxy)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 5 (S)-8-chloro-2-(trifluoromethyl)-6-[4-(trifluoromethyl)phenoxy]- 2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-8-cyano-2-(trifluoromethy1)-2H-1-benzopyran-3-carboxylic acid;
- 10 (S)-6-chloro-8-[(hydroxyimino)methyl]-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-8-(hydroxymethyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-8-(1H-benzimidazol-2-yl)-6-chloro-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-7-(1,1-dimethylethyl)-2-(pentafluoroethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-8-(methoxymethyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 20 (S)-6-chloro-8-(benzyloxymethyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-8-ethenyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-8-ethynyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid:
 - (S)-6-chloro-8-(2-thienyl)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;
 - (S)-6-chloro-8-(2-furanyl)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;
- 30 (S)-6-chloro-8-(5-chloro-1-pentynyl)-2-(trifluoromethyl)-2H1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-8-(1-pentynyl)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;
- (S)-6-chloro-8-(phenylethynyl)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;

- (S)-6-chloro-8-(3,3-dimethyl-1-butynyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- (S)-6-chloro-8-[(4-chlorophenyl)ethynyl]-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 5 (S)-6-chloro-8-[(4-methoxyphenyl)ethynyl]-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-(phenylethynyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-8-(4-chlorophenyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-8-(3-methoxyphenyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-8-[(4-methylthio)phenyl]-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 15 (S)-6-chloro-8-[(4-methylsulfonyl)phenyl]-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-8-phenyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-bromo-8-fluoro-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-(4-fluorophenyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-phenyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 25 (S)-8-chloro-6-fluoro-2-(trifluoromethyl)-2H-1-benzopyran-3carboxylic acid;
 - (S)-6,8-diiodo-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- (S)-6-(5-chloro-2-thienyl)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;
 - (S)-6-(2-thienyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-(4-chlorophenyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid:

- (S)-6-(4-bromophenyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- (S)-6-(ethynyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 5 (S)-6-methyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-8-(4-methoxyphenyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-2-(trifluoromethyl)-4-ethenyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-2-(trifluoromethyl)-4-phenyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-4-(2-thienyl)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;
- 15 (S)-6-(2,2,2-trifluoro-1-hydroxyethyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-methyl-2-(trifluoromethyl)-2H-1-benzothiopyran-3-carboxylic acid:
- 20 (S)-6,8-dimethyl-2-(trifluoromethyl)-2H-1-benzothiopyran-3-carboxylic acid;
 - (S)-6-(1,1-dimethylethyl)-2-(trifluoromethyl)-2H-1benzothiopyran-3-carboxylic acid;
 - (S)-7-methyl-2-(trifluoromethyl)-2H-1-benzothiopyran-3-carboxylic acid;
 - (S)-6,7-dimethyl-2-(trifluoromethyl)-2H-1-benzothiopyran-3-carboxylic acid;
 - (S)-8-methyl-2-(trifluoromethyl)-2H-1-benzothiopyran-3-carboxylic acid;
- 30 (S)-2-(trifluoromethyl)-2H-1-benzothiopyran-3-carboxylic acid;
 - (S)-6-chloro-7-methyl-2-(trifluoromethyl)-2H-1benzothiopyran-3-carboxylic acid;
- (S)-7-chloro-2-(trifluoromethyl)-2H-1-benzothiopyran-3carboxylic acid;

- (S)-6,7-dichloro-2-(trifluoromethyl)-2H-1-benzothiopyran-3-carboxylic acid;
- (S)-2-(trifluoromethyl)-6-[(trifluoromethyl)thio]-2H-1-benzopyran-3-carboxylic acid;
- 5 (S)-6,8-dichloro-2-trifluoromethyl-2H-1-benzothiopyran-3-carboxylic acid;
 - (S)-6-chloro-1,2-dihydro-2-(trifluoromethyl)-3-quinolinecarboxylic acid:
- 10 (S)-6,8-dichloro-1,2-dihydro-2-(trifluoromethyl)-3-quinolinecarboxylic acid;
 - (S)-6,7-difluoro-1,2-dihydro-2-(trifluoromethyl)-3-quinolinecarboxylic acid;
 - (S)-6-iodo-1,2-dihydro-2-(trifluoromethyl)-3-quinolinecarboxylic acid;
 - (S)-6-bromo-1,2-dihydro-2-(trifluoromethyl)-3-quinolinecarboxylic acid;
 - (S)-1,2-dihydro-6-(trifluoromethoxy)-2-(trifluoromethyl)-3-quinolinecarboxylic acid:
- 20 (S)-6-(trifluoromethyl)-1,2-dihydro-2-(trifluoromethyl)-3-quinolinecarboxylic acid;
 - (S)-6-cyano-1,2-dihydro-2-(trifluoromethyl)-3quinolinecarboxylic acid;
 - (S)-6-chloro-1,2-dihydro-1-methyl-2-(trifluoromethyl)-3-quinolinecarboxylic acid;
- (S)-6-chloro-1-[(4-chlorophenyl)methyl]-1,2-dihydro-2-(trifluoromethyl)-3-quinolinecarboxylic acid;

 - (S)-6-chloro-1-[(4-cyanophenyl)methyl]-1,2-dihydro-2-(trifluoromethyl)-3-quinolinecarboxylic acid;

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- (S)-6-chloro-1,2-dihydro-1-ethyl-2-(trifluoromethyl)-3-quinolinecarboxylic acid;
- 5 (S)-6-chloro-2-(triflouromethyl)-1,2dihydro[1,8]napthyridine-3-carboxylic acid;
 - (S)-2-trifluoromethyl-2H-naphtho[1,2-b]pyran-3-carboxylic
 acid;
- 10 (S)-2-trifluoromethyl-3H-naptho[2,1-b]pyran-3-carboxylic acid;
 - (S)-2-trifluoromethyl-2H-naphtho[2,3-b]pyran-3-carboxylic acid; and
- (S)-5-(hydroxymethyl)-8-methyl-2-(trifluoromethyl)-2Hpyrano[2,3-c]pyridine-3-carboxylic acid.

The term "hydrido" denotes a single hydrogen atom (H). This hydrido radical may be attached, for example, to an oxygen atom to form a hydroxyl radical or two hydrido radicals may be attached to a carbon atom to form a 20 methylene $(-CH_2-)$ radical. Where the term "alkyl" is used, either alone or within other terms such as "haloalkyl" and "alkylsulfonyl", it embraces linear or branched radicals having one to about twenty carbon atoms or, preferably, one to about twelve carbon atoms. More preferred alkyl radicals 25 are "lower alkyl" radicals having one to about six carbon atoms. Examples of such radicals include methyl, ethyl, npropyl, isopropyl, n-butyl, isobutyl, sec-butyl, tert-butyl, pentyl, iso-amyl, hexyl and the like. Most preferred are lower alkyl radicals having one to three carbon atoms. 30 term "alkenyl" embraces linear or branched radicals having at least one carbon-carbon double bond of two to about twenty carbon atoms or, preferably, two to about twelve carbon atoms. More preferred alkenyl radicals are "lower alkenyl" radicals having two to about six carbon atoms. 35

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What is claimed is:

1. A compound of Formula I'

$$R^{2} \xrightarrow{A^{2} \stackrel{\wedge}{6}} \stackrel{A^{1}}{5} \stackrel{A}{A} \stackrel{A}{X} \stackrel{1}{X} \stackrel{R}{\longrightarrow} R^{1}$$

wherein X is selected from O, S, CR^cR^b and NR^a;

wherein R* is selected from hydrido, C1-C3-alkyl,

(optionally substituted phenyl)-C,-C,-alkyl, acyl

and carboxy-C₁-C₆-alkyl;

wherein each of R^b and R^c is independently selected from hydrido, C₁-C₃-alkyl, phenyl-C₁-C₃-alkyl, C₁-C₃-perfluoroalkyl, chloro, C₁-C₆-alkylthio, C₁-C₆-alkoxy, nitro, cyano and cyano-C₁-C₃-alkyl;

wherein R is selected from carboxyl, aminocarbonyl, C_1-C_6 -alkylsulfonylaminocarbonyl and C_1-C_6 -alkoxycarbonyl;

wherein R" is selected from hydrido, phenyl, thienyl and C₂-C₆-alkenyl;

wherein R¹ is selected from C₁-C₃-perfluoroalkyl, chloro, C₁-C₆-alkylthio, C₁-C₆-alkoxy, nitro, cyano and cyano-C₁-C₃-alkyl;

wherein R² is one or more radicals independently selected from hydrido, halo, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, halo-C₂-C₆-alkynyl, aryl-C₁-C₁-alkyl, aryl-C₂-C₆-alkynyl, aryl-C₂-C₆-

alkenyl, C,-C,-alkoxy, methylenedioxy, C,-C,-alkylthio, C,-C,-alkylsulfinyl, aryloxy,

arylthio, arylsulfinyl, heteroaryloxy, C_1-C_4 -

alkoxy-C₁-C₆-alkyl, aryl-C₁-C₆-alkyloxy, heteroaryl-C₁-C₆-alkyloxy, aryl-C₁-C₆-alkoxy-C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₁-C₆-haloalkoxy, C₁-C₆-

haloalkylthio C₁-C₄-haloalkylsulfinyl, C₁-C₄-

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haloalkylsulfonyl, C_1-C_3- (haloalkyl- $C_1-C_3 \label{eq:convergence} \mbox{hydroxyalkyl, } \mbox{C}_{\mbox{\tiny 1}}\mbox{-}\mbox{C}_{\mbox{\tiny 1}}\mbox{-}\mbox{-}\mbox{C}_{\mbox{\tiny 1}}\mbox{-}\mbox{-}\mbox{C}_{\mbox{\tiny 1}}\mbox{-}\mbox{-}\mbox{C}_{\mbox{\tiny 1}}\mbox{-}$ C_6 -alkyl, C_1 - C_6 -alkylamino, arylamino, aryl- C_1 - C_6 alkylamino, heteroarylamino, heteroaryl $-C_1-C_6$ alkylamino, nitro, cyano, amino, aminosulfonyl, 5 C,-C,-alkylaminosulfonyl, arylaminosulfonyl, heteroarylaminosulfonyl, aryl-C,-C,alkylaminosulfonyl, heteroaryl- C_1 - C_6 alkylaminosulfonyl, heterocyclylsulfonyl, C_1-C_6 alkylsulfonyl, aryl-C,-C,-alkylsulfonyl, 10 optionally substituted aryl, optionally substituted heteroaryl, aryl-C₁-C₆-alkylcarbonyl, heteroaryl-C,-C,-alkylcarbonyl, heteroarylcarbonyl, arylcarbonyl, aminocarbonyl, 15 C_1-C_6 -alkoxycarbonyl, formyl, C_1-C_6 haloalkylcarbonyl and C_1 - C_6 -alkylcarbonyl; and wherein the A ring atoms A1, A2, A3 and A4 are independently selected from carbon and nitrogen with the proviso that at least two of A1, A2, A3 20 and A' are carbon: or wherein R² together with ring A forms a radical

- or wherein R² together with ring A forms a radical selected from naphthyl, quinolyl, isoquinolyl, quinolizinyl, quinoxalinyl and dibenzofuryl;
- or an isomer or pharmaceutically acceptable salt thereof.
- 2. A compound of Claim 1 wherein X is selected from 0, S, CR°R° and NR°; wherein R° is selected from hydrido, C₁-C₃-alkyl, (optionally substituted phenyl)-C₁-C₃-alkyl, acyl and carboxy-C₁-C₆-alkyl; wherein each of R° and R° is independently selected from hydrido, C₁-C₃-alkyl, phenyl-C₁-C₃-alkyl, C₁-C₃-perfluoroalkyl, chloro, C₁-C₆-alkylthio, C₁-C₆-alkoxy, nitro, cyano and cyano-C₁-C₃-alkyl; wherein R is selected from carboxyl, aminocarbonyl, C₁-C₆-alkylsulfonylaminocarbonyl and C₁-C₆-alkoxycarbonyl; wherein R° is selected from hydrido, phenyl, thienyl and C₂-C₆-alkenyl; wherein R° is selected from C₁-C₃-

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perfluoroalkyl, chloro, C,-C,-alkylthio, C,-C,-alkoxy, nitro, cyano and cyano-C,-C,-alkyl; wherein R'is one or more radicals independently selected from hydrido, halo, C_1-C_6 -alkyl, C_2-C_6 -alkenyl, C_2-C_6 alkynyl, halo- C_2 - C_6 -alkynyl, aryl- C_1 - C_3 -alkyl, aryl- C_2 -C₆-alkynyl, aryl-C₂-C₆-alkenyl, C₁-C₆-alkoxy, methylenedioxy, C₁-C₆-alkylthio, C₁-C₆-alkylsulfinyl, aryloxy, arylthio, arylsulfinyl, heteroaryloxy, C_{i} - C_{ϵ} -alkoxy- C_{1} - C_{ϵ} -alkyl, aryl- C_{1} - C_{ϵ} -alkyloxy, heteroaryl- C_1-C_6 -alkyloxy, aryl- C_1-C_6 -alkoxy- C_1-C_6 -alkyl, C_1-C_6 haloalkyl, C₁-C₆-haloalkoxy, C₁-C₆-haloalkylthio, C₁- C_{ϵ} -haloalkylsulfinyl, C_{1} - C_{ϵ} -haloalkylsulfonyl, C_{1} - C_{3} - $(haloalkyl-C_1-C_3-hydroxyalkyl, C_1-C_6-hydroxyalkyl,$ hydroxyimino-C₁-C₆-alkyl, C₁-C₆-alkylamino, arylamino, $aryl-C_1-C_6-alkylamino$, heteroarylamino, heteroaryl- C_1- 15 C_s-alkylamino, nitro, cyano, amino, aminosulfonyl, C₁-C₆-alkylaminosulfonyl, arylaminosulfonyl, heteroarylaminosulfonyl, aryl-C,-C,alkylaminosulfonyl, heteroaryl- C_1 - C_5 alkylaminosulfonyl, heterocyclylsulfonyl, C₁-C₆-20 alkylsulfonyl, aryl-C₁-C₆-alkylsulfonyl, optionally substituted aryl, optionally substituted heteroaryl, aryl-C,-C,-alkylcarbonyl, heteroaryl-C,-C,alkylcarbonyl, heteroarylcarbonyl, arylcarbonyl, aminocarbonyl, C_1-C_6 -alkoxycarbonyl, formyl, C_1-C_6 -25 haloalkylcarbonyl and C,-C,-alkylcarbonyl; and wherein the A ring atoms A1, A2, A3 and A4 are independently selected from carbon and nitrogen with the proviso that at least three of A^1 , A^2 , A^3 and A^4 are carbon; or wherein R2 together with ring A forms 30 a naphthyl or quinolyl radical; or an isomer or pharmaceutically acceptable salt thereof.

3. A compound of Claim 2 wherein X is selected from 0, S and NR*; wherein R* is selected from hydrido, C₁-C₃-alkyl and (optionally substituted phenyl)methyl; wherein R is carboxyl; wherein R* is selected from hydrido and C₂-C₅-alkenyl; wherein R¹ is

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selected from C₁-C₃-perfluoroalkyl; wherein R² is one or more radicals independently selected from hydrido, halo, C_1-C_6 -alkyl, C_2-C_6 -alkenyl, C_2-C_6 alkynyl, halo-C₂-C₄-alkynyl, phenyl-C₁-C₅-alkyl, phenyl- C_2 - C_6 -alkynyl, phenyl- C_2 - C_6 -alkenyl, C_1 - C_3 alkoxy, methylenedioxy, C₁-C₃-alkoxy-C₁-C₃-alkyl, C₁-C,-alkylthio, C,-C,-alkylsulfinyl, phenyloxy, phenylthio, phenylsulfinyl, C,-C,-haloalkyl-C,-C,hydroxyalkyl, phenyl- C_1 - C_3 -alkyloxy- C_1 - C_3 -alkyl, C_1 - C_3 haloalkyl, C₁-C₃-haloalkoxy, C₁-C₃-haloalkylthio, C₁-10 C,-hydroxyalkyl, C,-C,-alkoxy-C,-C,-alkyl, hydroxyimino-C₁-C₃-alkyl, C₁-C₆-alkylamino, nitro, cyano, amino, aminosulfonyl, N-alkylaminosulfonyl, N-arylaminosulfonyl, N-heteroarylaminosulfonyl, N-(phenyl- C_1 - C_6 -alkyl) aminosulfonyl, N-(heteroaryl- C_1 -15 C_6 -alkyl)aminosulfonyl, phenyl- C_1 - C_3 -alkylsulfonyl, 5to 8-membered heterocyclylsulfonyl, C,-C,alkylsulfonyl, optionally substituted phenyl, optionally substituted 5- to 9-membered heteroaryl, 20 phenyl-C₁-C₆-alkylcarbonyl, phenylcarbonyl, 4chlorophenylcarbonyl, 4-hydroxyphenylcarbonyl, 4trifluoromethylphenylcarbonyl, 4methoxyphenylcarbonyl, aminocarbonyl, formyl, and C_1 - C_6 -alkylcarbonyl; wherein the A ring atoms A^1 , A^2 , A^3 and A4 are independently selected from carbon and nitrogen with the proviso that at least three of A1, A², A³ and A⁴ are carbon; or wherein R² together with ring A forms a naphthyl, benzofurylphenyl, or quinolyl radical; or an isomer or pharmaceutically 30 acceptable salt thereof.

A compound of Claim 3 wherein X is selected from 0, S and NR*; wherein R* is selected from hydrido, methyl, ethyl, (4-trifluoromethyl)benzyl,
 (4-chloromethyl)benzyl, (4-methoxy)benzyl, and (4-cyano)benzyl, (4-nitro)benzyl; wherein R is carboxyl; wherein R* is selected from hydrido and ethenyl; wherein R* is selected from trifluoromethyl

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and pentafluoroethyl; wherein R2 is one or more radicals independently selected from hydrido, chloro, bromo, fluoro, iodo, methyl, tert-butyl, ethenyl, ethynyl, 5-chloro-1-pentynyl, 1-pentynyl, 3,3-dimethyl-1-butynyl, benzyl, phenylethyl, phenylethynyl, 4-chlorophenyl-ethynyl, 4-methoxyphenylethynyl, phenylethenyl, methoxy, methylthio, methylsulfinyl, phenyloxy, phenylthio, phenylsulfinyl, methylenedioxy, benzyloxymethyl, 10 trifluoromethyl, difluoromethyl, pentafluoroethyl, trifluoromethoxy, trifluoromethylthio, hydroxymethyl, hydroxy-trifluoroethyl, methoxymethyl, hydroxyiminomethyl, N-methylamino, nitro, cyano, amino, aminosulfonyl, N-15 methylaminosulfonyl, N-phenylaminosulfonyl, Nfurylaminosulfonyl, N-(benzyl)aminosulfonyl, N-(furylmethyl)aminosulfonyl, benzylsulfonyl, phenylethylaminosulfonyl, furylsulfonyl, methylsulfonyl, phenyl, phenyl substituted with one 20 or more radicals selected from chloro, fluoro, bromo, methoxy, methylthio and methylsulfonyl, benzimidazolyl, thienyl, thienyl substituted with chloro, furyl, furyl substituted with chloro, benzylcarbonyl, optionally substituted 25 phenylcarbonyl, aminocarbonyl, formyl and methylcarbonyl; wherein the A ring atoms A1, A2, A3 and A' are independently selected from carbon and nitrogen with the proviso that at least three of A1, A², A³ and A⁴ are carbon; or wherein R² together with 30 ring A forms a naphthyl, or quinolyl radical; or an isomer or pharmaceutically acceptable salt thereof.

5. A compound of Claim 4 selected from compounds, and their isomers and pharmaceutically35 acceptable salts, of the group consisting of 6-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid:

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```
7-ethyl-2-trifluoromethyl-2H-1-benzopyran-3-
         carboxylic acid;
    7-methyl-2-trifluoromethyl-2H-1-benzopyran-3-
         carboxylic acid;
    2,7-bis(trifluoromethyl)-2H-1-benzopyran-3-
5
         carboxylic acid;
    7-bromo-2-trifluoromethyl-2H-1-benzopyran-3-
         carboxylic acid;
    6-chloro-7-methyl-2-trifluoromethyl-2H-1-benzopyran-
10
         3-carboxylic acid;
    8-(1-methylethyl)-2-trifluoromethyl-2H-1-benzopyran-
         3-carboxylic acid:
    6-chloro-7-(1,1-dimethylethyl)-2-trifluoromethyl-2H-
         1-benzopyran-3-carboxylic acid;
    6-chloro-8-(1-methylethyl)-2-trifluoromethyl-2H-1-
15
         benzopyran-3-carboxylic acid;
    2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
    8-ethoxy-2-trifluoromethyl-2H-1-benzopyran-3-
         carboxylic acid:
20
    7-(1,1-dimethylethyl)-2-trifluoromethyl-2H-1-
         benzopyran-3-carboxylic acid;
    6-bromo-2-trifluoromethyl-2H-1-benzopyran-3-
         carboxylic acid;
    8-chloro-2-trifluoromethyl-2H-1-benzopyran-3-
25
         carboxylic acid;
    8-bromo-6-chloro-2-trifluoromethyl-2H-1-benzopyran-
         3-carboxylic acid:
    6-trifluoromethoxy-2-trifluoromethyl-2H-1-
         benzopyran-3-carboxylic acid;
    8-fluoro-2-trifluoromethyl-2H-1-benzopyran-3-
30
         carboxylic acid:
    5,7-dichloro-2-trifluoromethyl-2H-1-benzopyran-3-
         carboxylic acid;
    7,8-dichloro-2-trifluoromethyl-2H-1-benzopyran-3-
35
         carboxylic acid;
    7-isopropyloxy-2-trifluoromethyl-2H-1-benzopyran-3-
         carboxylic acid;
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```
8-phenyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
7.8-dimethyl-2-trifluoromethyl 2H 1 benzonsky
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- 7,8-dimethyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 5 6,8-bis(1,1-dimethylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 7-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 7-(1-methylethyl)-2-trifluoromethyl-2H-1-benzopyran-10 3-carboxylic acid;
 - 7-phenyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-chloro-7-ethyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 8-ethyl-2-trifluoromethyl-2H-1-benzopyran-3carboxylic acid;

20

- 6-chloro-8-ethyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 6-chloro-7-phenyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 6,7-dichloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 6,8-dichloro-2-trifluoromethyl-2H-1-benzopyran-3carboxylic acid;
- 25 6,8-dibromo-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6,8-dimethoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-nitro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-amino-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - ethyl 6-amino-2-trifluoromethyl-2H-1-benzopyran-3-carboxylate;
- 35 6-chloro-8-methyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 8-chloro-6-methyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid:

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8-chloro-6-methoxy-2-trifluoromethyl-2H-1-
         benzopyran-3-carboxylic acid;
    6,8-difluoro-2-trifluoromethy1-2H-1-benzopyran-3-
         carboxylic acid;
    6-bromo-8-chloro-2-trifluoromethyl-2H-1-benzopyran-
 5
         3-carboxylic acid;
    8-bromo-6-fluoro-2-trifluoromethyl-2H-1-benzopyran-
         3-carboxylic acid;
    8-bromo-6-methyl-2-trifluoromethyl-2H-1-benzopyran-
10
         3-carboxylic acid;
    8-bromo-5-fluoro-2-trifluoromethyl-2H-1-benzopyran-
         3-carboxylic acid;
    6-chloro-8-fluoro-2-trifluoromethyl-2H-1-benzopyran-
         3-carboxylic acid:
    6-bromo-8-methoxy-2-trifluoromethyl-2H-1-benzopyran-
15
         3-carboxylic acid;
    7-(N,N-diethylamino)-2-trifluoromethyl-2H-1-
         benzopyran-3-carboxylic acid;
    6-[[(phenylmethyl)amino]sulfonyl]-2-trifluoromethyl-
20
         2H-1-benzopyran-3-carboxylic acid;
    6-[(dimethylamino)sulfonyl]-2-trifluoromethyl-2H-1-
         benzopyran-3-carboxylic acid;
    6-aminosulfonyl-2-trifluoromethyl-2H-1-benzopyran-3-
         carboxylic acid:
25
    6-(methylamino)sulfonyl-2-trifluoromethyl-2H-1-
         benzopyran-3-carboxylic acid;
    6-[(4-morpholino)sulfonyl]-2-trifluoromethyl-2H-1-
         benzopyran-3-carboxylic acid;
    6-[(1,1-dimethylethyl)aminosulfonyl]-2-
30
         trifluoromethyl-2H-1-benzopyran-3-carboxylic
         acid:
    6-[(2-methylpropyl)aminosulfonyl]-2-trifluoromethyl-
         2H-1-benzopyran-3-carboxylic acid;
    6-methylsulfonyl-2-trifluoromethyl-2H-1-benzopyran-
35
         3-carboxylic acid:
    8-chloro-6-[[(phenylmethyl)amino]sulfonyl]-2-
         trifluoromethyl-2H-1-benzopyran-3-carboxylic
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acid;

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6-N, N-diethylaminosulfonyl-2-trifluoromethyl-2H-1-
          benzopyran-3-carboxylic acid;
     6-phenylacetyl-2-trifluoromethyl-2H-1-benzopyran-3-
          carboxylic acid;
     6-(2,2-dimethylpropylcarbonyl)-2-trifluoromethyl-2H-
          1-benzopyran-3-carboxylic acid;
     6,8-dichloro-7-methoxy-2-trifluoromethyl-2H-1-
          benzopyran-3-carboxylic acid;
     6-chloro-2-trifluoromethyl-2H-1-benzothiopyran-3-
10
          carboxylic acid;
     6-[[(2-furanylmethyl)amino]sulfonyl]-2-
          (trifluoromethyl)-2H-1-benzopyran-3-carboxylic
          acid;
     6-[(phenylmethyl)sulfonyl]-2-(trifluoromethyl)-2H-1-
15
          benzopyran-3-carboxylic acid;
     6-[[(phenylethyl)amino]sulfonyl]-2-
          (trifluoromethyl)-2H-1-benzopyran-3-carboxylic
          acid:
     6-iodo-2-trifluoromethyl-2H-1-benzopyran-3-
20
          carboxylic acid;
    6-chloro-8-iodo-2-(trifluoromethyl)-2H-1-benzopyran-
          3-carboxylic acid;
     8-bromo-6-chloro-2-trifluoromethyl-2H-1-benzopyran-
          3-carboxylic acid;
25
    6-formyl-2-(trifluoromethyl)-2H-1-benzopyran-3-
          carboxylic acid;
     6-chloro-8-formyl-2-(trifluoromethyl)-2H-1-
          benzopyran-3-carboxylic acid;
    6-bromo-7-(1,1-dimethylethyl)-2-(trifluoromethyl)-
30
          2H-1-benzopyran-3-carboxylic acid;
    5,6-dichloro-2-(trifluoromethyl)-2H-1-benzopyran-3-
          carboxylic acid;
    6-cyano-2-(trifluoromethyl)-2H-1-benzopyran-3-
          carboxylic acid :
35 6-hydroxymethyl-2-(trifluoromethyl)-2H-1-benzopyran-
          3-carboxylic acid;
    6-(difluoromethyl)-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
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2,6-bis(trifluoromethyl)-2H-1-benzopyran-3-
carboxylic acid;
5,6,7-trichloro-2-(trifluoromethyl)-2H-1-benzopyran-
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- 3-carboxylic acid;
- 5 6,7,8-trichloro-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-(methylthio)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-(methylsulfinyl)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;

20

- 5,8-dichloro-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 6-(pentafluoroethyl)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;
- 15 6-(1,1-dimethylethyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 2-(trifluoromethyl)-6-[(trifluoromethyl)thio]-2H-1benzopyran-3-carboxylic acid;
 - 6,8-dichloro-7-methyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-chloro-2,7-bis(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 5-methoxy-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 25 6-benzoyl-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 6-(4-chlorobenzoyl)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;
 - 6-(4-hydroxybenzoyl)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;
 - 6-phenoxy-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - 8-chloro-6-(4-chlorophenoxy)-2-trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
- 25 2-(trifluoromethyl)-6-[4-(trifluoromethyl)phenoxy)2H-1-benzopyran-3-carboxylic acid;
 - 6-(4-methoxyphenoxy)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid;

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6-(3-chloro-4-methoxyphenoxy)-2-(trifluoromethyl)-
         2H-1-benzopyran-3-carboxylic acid;
    6-(4-chlorophenoxy)-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
    8-chloro-2-(trifluoromethyl)-6-[4-
         (trifluoromethyl)phenoxy] - 2H-1-benzopyran-3-
         carboxylic acid;
    6-chloro-8-cyano-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
10
    6-chloro-8-[(hydroxyimino)methyl]-2-
         (trifluoromethyl)-2H-1-benzopyran-3-carboxylic
    6-chloro-8-(hydroxymethyl)-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
15
    8-(1H-benzimidazol-2-yl)-6-chloro-2-
         (trifluoromethyl)-2H-1-benzopyran-3-carboxylic
         acid;
    7-(1,1-dimethylethyl)-2-(pentafluoroethyl)-2H-1-
         benzopyran-3-carboxylic acid;
    6-chloro-8-(methoxymethyl)-2-(trifluoromethyl)-2H-1-
20
         benzopyran-3-carboxylic acid;
    6-chloro-8-(benzyloxymethyl)-2-(trifluoromethyl)-2H-
         1-benzopyran-3-carboxylic acid;
    6-chloro-8-ethenyl-2-(trifluoromethyl)-2H-1-
25
         benzopyran-3-carboxylic acid;
    6-chloro-8-ethynyl-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
    6-chloro-8-(2-thienyl)-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
30
    6-chloro-8-(2-furanyl)-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
    6-chloro-8-(5-chloro-1-pentynyl)-2-
         (trifluoromethyl)-2H-1-benzopyran-3-carboxylic
         acid:
35
    6-chloro-8-(1-pentynyl)-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
    6-chloro-8-(phenylethynyl)-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
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6-chloro-8-(3,3-dimethyl-1-butynyl)-2-
          (trifluoromethyl)-2H-1-benzopyran-3-carboxylic
         acid;
    6-chloro-8-[(4-chlorophenyl)ethynyl]-2-
 5
          (trifluoromethyl)-2H-1-benzopyran-3-carboxylic
         acid:
    6-chloro-8-[(4-methoxyphenyl)ethynyl]-2-
          (trifluoromethyl)-2H-1-benzopyran-3-carboxylic
         acid;
10
    6-(phenylethynyl)-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
    6-chloro-8-(4-chlorophenyl)-2-(trifluoromethyl)-2H-
         1-benzopyran-3-carboxylic acid;
    6-chloro-8-(3-methoxyphenyl)-2-(trifluoromethyl)-2H-
15
         1-benzopyran-3-carboxylic acid;
    6-chloro-8-[(4-methylthio)phenyl]-2-
          (trifluoromethyl)-2H-1-benzopyran-3-carboxylic
         acid:
    6-chloro-8-[(4-methylsulfonyl)phenyl]-2-
20
          (trifluoromethyl)-2H-1-benzopyran-3-carboxylic
         acid:
    6-chloro-8-phenyl-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid:
    6-bromo-8-fluoro-2-(trifluoromethyl)-2H-1-
25
         benzopyran-3-carboxylic acid;
    6-(4-fluorophenyl)-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
    6-phenyl-2-(trifluoromethyl)-2H-1-benzopyran-3-
         carboxylic acid;
30
    8-chloro-6-fluoro-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
    6,8-diiodo-2-(trifluoromethyl)-2H-1-benzopyran-3-
         carboxylic acid;
    6-(5-chloro-2-thienyl)-2-(trifluoromethyl)-2H-1-
35
         benzopyran-3-carboxylic acid;
    6-(2-thienyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-
         carboxylic acid;
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6-(4-chlorophenyl)-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
    6-(4-bromophenyl)-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid:
 5
    6-(ethynyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-
         carboxylic acid:
    6-methyl-2-(trifluoromethyl)-2H-1-benzopyran-3-
         carboxylic acid:
    6-chloro-8-(4-methoxyphenyl)-2-trifluoromethyl-2H-1-
10
         benzopyran-3-carboxylic acid:
    6-chloro-2-(trifluoromethyl)-4-ethenyl-2H-1-
         benzopyran-3-carboxylic acid;
    6-chloro-2-(trifluoromethyl)-4-phenyl-2H-1-
         benzopyran-3-carboxylic acid;
15
    6-chloro-4-(2-thienyl)-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
    6-(2,2,2-trifluoro-1-hydroxyethyl)-2-
         (trifluoromethyl)-2H-1-benzopyran-3-carboxylic
         acid;
20
    6-methyl-2-(trifluoromethyl)-2H-1-benzothiopyran-3-
         carboxylic acid;
    6,8-dimethyl-2-(trifluoromethyl)-2H-1-
         benzothiopyran-3-carboxylic acid;
25
    6-(1,1-dimethylethyl)-2-(trifluoromethyl)-2H-1-
         benzothiopyran-3-carboxylic acid;
    7-methyl-2-(trifluoromethyl)-2H-1-benzothiopyran-3-
         carboxylic acid;
    6,7-dimethyl-2-(trifluoromethyl)-2H-1-
30
         benzothiopyran-3-carboxylic acid;
    8-methyl-2-(trifluoromethyl)-2H-1-benzothiopyran-3-
         carboxylic acid;
    2-(trifluoromethyl)-2H-1-benzothiopyran-3-carboxylic
         acid:
35
    6-chloro-7-methyl-2-(trifluoromethyl)-2H-1-
         benzothiopyran-3-carboxylic acid;
    7-chloro-2-(trifluoromethyl)-2H-1-benzothiopyran-3-
         carboxylic acid;
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6,7-dichloro-2-(trifluoromethyl)-2H-1-
         benzothiopyran-3-carboxylic acid;
    2-(trifluoromethyl)-6-[(trifluoromethyl)thio]-2H-1-
         benzopyran-3-carboxylic acid;
    6,8-dichloro-2-trifluoromethyl-2H-1-benzothiopyran-
 5
         3-carboxylic acid;
    6-chloro-1,2-dihydro-2-(trifluoromethyl)-3-
         quinolinecarboxylic acid;
    6,8-dichloro-1,2-dihydro-2-(trifluoromethy1)-3-
10
         quinolinecarboxylic acid;
    6,7-difluoro-1,2-dihydro-2-(trifluoromethy1)-3-
         quinolinecarboxylic acid;
    6-iodo-1,2-dihydro-2-(trifluoromethyl)-3-
         quinolinecarboxylic acid;
    6-bromo-1,2-dihydro-2-(trifluoromethyl)-3-
15
         quinolinecarboxylic acid;
    1,2-dihydro-6-(trifluoromethoxy)-2-
         (trifluoromethyl)-3-quinolinecarboxylic acid;
    6-(trifluoromethyl)-1,2-dihydro-2-(trifluoromethyl)-
20
         3-quinolinecarboxylic acid;
    6-cyano-1,2-dihydro-2-(trifluoromethyl)-3-
         quinolinecarboxylic acid;
    6-chloro-1,2-dihydro-1-methyl-2-(trifluoromethyl)-3-
         quinolinecarboxylic acid;
25
    6-chloro-1,2-dihydro-2-(trifluoromethyl)-1-[[4-
         (trifluoromethyl)phenyl]methyl]-3-
         quinolinecarboxylic acid;
    6-chloro-1-[(4-chlorophenyl)methyl]-1,2-dihydro-2-
         (trifluoromethyl)-3-quinolinecarboxylic acid:
30
    6-chloro-1,2-dihydro-2-(trifluoromethyl)-1-[[4-
         (methoxy)phenyl]methyl]-3-quinolinecarboxylic
         acid:
    6-chloro-1-[(4-cyanophenyl)methyl]-1,2-dihydro-2-
         (trifluoromethyl)-3-quinolinecarboxylic acid;
35
    6-chloro-1,2-dihydro-1-[(4-nitrophenyl)methyl]-2-
         (trifluoromethyl)-3-quinolinecarboxylic acid;
    6-chloro-1,2-dihydro-1-ethyl-2-(trifluoromethyl)-3-
         quinolinecarboxylic acid;
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6-chloro-2-(triflouromethyl)-1,2-
           dihydro[1,8]napthyridine-3-carboxylic acid;
     2-trifluoromethyl-2H-naphtho[1,2-b]pyran-3-
           carboxylic acid;
     2-trifluoromethyl-3H-naptho[2,1-b]pyran-3-carboxylic
 5
           acid;
     2-trifluoromethyl-2H-naphtho[2,3-b]pyran-3-
          carboxylic acid;
     5-(hydroxymethyl)-8-methyl-2-(trifluoromethyl)-2H-
10
          pyrano[2,3-c]pyridine-3-carboxylic acid;
     6-(trifluoromethyl)-6h-1,3-dioxolo[4,5-
          g][1]benzopyran-7-carboxylic acid; and
     3-(trifluoromethyl)-3H-benzofuro[3,2-
          f][1]benzopyran-2-carboxylic acid.
15
          6. A compound of Claim 2 wherein X is 0;
     wherein R is carboxyl; wherein R" is selected from
     hydrido and C2-C6-alkenyl; wherein R1 is selected from
     C<sub>1</sub>-C<sub>1</sub>-perfluoroalkyl; wherein R<sup>2</sup> is one or more
20 radicals independently selected from hydrido, halo,
     C_1-C_6-alkyl, phenyl-C_1-C_6-alkyl, phenyl-C_2-C_6-alkynyl,
    phenyl-C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, phenyloxy, 5- or
     6-membered heteroaryloxy, phenyl-C<sub>1</sub>-C<sub>6</sub>-alkyloxy, 5-
    or 6-membered heteroaryl-C_1-C_6-alkyloxy, C_1-C_6-
25
    haloalkyl, C_1-C_6-haloalkoxy, N-(C_1-C_6-alkyl) amino,
    N, N-di-(C<sub>1</sub>-C<sub>6</sub>-alkyl)amino, N-phenylamino, N-(phenyl-
    C,-C,-alkyl)amino, N-heteroarylamino, N-(heteroaryl-
    C<sub>1</sub>-C<sub>6</sub>-alkylamino, nitro, amino, aminosulfonyl, N-(C<sub>5</sub>-
    30
    alkyl)aminosulfonyl, N-arylaminosulfonyl, N-
    heteroarylaminosulfonyl, N-(phenyl-C_1-C_6-
    alkyl)aminosulfonyl, N-(heteroaryl-C,-C,-
     alkyl)aminosulfonyl, 5- to 8-membered
    heterocyclylsulfonyl, C_1-C_6-alkylsulfonyl, optionally
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substituted phenyl, optionally substituted 5- or 6-

membered heteroaryl, phenyl-C₁-C₆-alkylcarbonyl, heteroarylcarbonyl, phenylcarbonyl, aminocarbonyl,

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and C_1 - C_6 -alkylcarbonyl; wherein the A ring atoms A^1 , A^2 , A^3 and A^4 are independently selected from carbon and nitrogen with the proviso that at least three of A^1 , A^2 , A^3 and A^4 are carbon; or an isomer or pharmaceutically acceptable salt thereof.

- 7. A compound of Claim 6 wherein X is 0; wherein R is carboxyl; wherein R* is selected from hydrido and ethenyl; wherein R'is selected from trifluoromethyl and pentafluoroethyl; wherein R'is 10 one or more radicals independently selected from hydrido, chloro, bromo, fluoro, iodo, methyl, tertbutyl, ethenyl, ethynyl, 5-chloro-1-pentynyl, 1pentynyl, 3,3-dimethyl-1-butynyl, benzyl, phenylethyl, phenyl-ethynyl, 4-chlorophenyl-ethynyl, 15 4-methoxyphenyl-ethynyl, phenylethenyl, methoxy, methylthio, methylsulfinyl, phenyloxy, phenylthio, phenylsulfinyl, pyridyloxy, thienyloxy, furyloxy, phenylmethoxy, methylenedioxy, benzyloxymethyl, trifluoromethyl, difluoromethyl, pentafluoroethyl, 20 trifluoromethoxy, trifluoromethylthio, hydroxymethyl, hydroxy-trifluoroethyl, methoxymethyl, hydroxyiminomethyl, N-methylamino, Nphenylamino, N-(benzyl)amino, nitro, cyano, amino, 25 aminosulfonyl, N-methylaminosulfonyl, Nphenylaminosulfonyl, N-furylaminosulfonyl, N-(benzyl)aminosulfonyl, N-(furylmethyl)aminosulfonyl, benzylsulfonyl, phenylethylaminosulfonyl, furylsulfonyl, methylsulfonyl, phenyl, phenyl 30 substituted with one or more radicals selected from chloro, fluoro, bromo, methoxy, methylthio and
- phenylcarbonyl, aminocarbonyl, formyl, and methylcarbonyl; and wherein one of the A ring atoms A¹, A², A³ and A⁴ is nitrogen and the other three are

with chloro, benzylcarbonyl, furylcarbonyl,

methylsulfonyl, benzimidazolyl, thienyl, thienyl substituted with chloro, furyl, furyl substituted

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carbon; or an isomer or pharmaceutically acceptable salt thereof.

- 9. A compound of Claim 7 wherein X is 0;
 5 wherein R is carboxyl; wherein R' is selected from hydrido and ethenyl; wherein R' is selected from trifluoromethyl and pentafluoroethyl; wherein R' is one or more radicals independently selected from hydrido, chloro, bromo, fluoro, iodo, methyl, tert-butyl, ethenyl, ethynyl, 5-chloro-1-pentynyl, 1-pentynyl, 3,3-dimethyl-1-butynyl, benzyl, phenylethyl, phenyl-ethynyl, 4-chlorophenyl-ethynyl,
- methylthio, methylsulfinyl, phenyloxy, phenylthio,

 phenylsulfinyl, pyridyloxy, thienyloxy, furyloxy,
 phenylmethoxy, methylenedioxy, benzyloxymethyl,
 trifluoromethyl, difluoromethyl, pentafluoroethyl,
 trifluoromethoxy, trifluoromethylthio,
 hydroxymethyl, hydroxy-trifluoroethyl,

4-methoxyphenyl-ethynyl, phenylethenyl, methoxy,

- 20 methoxymethyl, hydroxyiminomethyl, N-methylamino, N-phenylamino, N-(benzyl)amino, nitro, cyano, amino, aminosulfonyl, N-methylaminosulfonyl, N-phenylaminosulfonyl, N-furylaminosulfonyl, N-(benzyl)aminosulfonyl, N-(furylmethyl)aminosulfonyl,
- benzylsulfonyl, phenylethylaminosulfonyl, furylsulfonyl, methylsulfonyl, phenyl, phenyl substituted with one or more radicals selected from chloro, fluoro, bromo, methoxy, methylthio and methylsulfonyl, benzimidazolyl, thienyl, thienyl
- substituted with chloro, furyl, furyl substituted with chloro, benzylcarbonyl, furylcarbonyl, phenylcarbonyl, aminocarbonyl, formyl, and methylcarbonyl; wherein the A ring atoms A¹, A², A³ and A⁴ are carbon; or an isomer or pharmaceutically
- 35 acceptable salt thereof.

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- 10. A compound of Claim 9 selected from compounds, and their isomers and pharmaceutically-acceptable salts, of the group consisting of 6-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- (S)-6-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

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- 6-chloro-7-methyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 10 6-chloro-7-(1,1-dimethylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-chloro-7-(1,1-dimethylethyl)-2trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 6-chloro-8-(1-methylethyl)-2-trifluoromethyl-2H-1benzopyran-3-carboxylic acid;
 - 7-(1,1-dimethylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-trifluoromethoxy-2-trifluoromethyl-2H-1benzopyran-3-carboxylic acid;
 - (S)-6-trifluoromethoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6,7-dichloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 25 6,8-dichloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6,8-dichloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6,8-dichloro-7-methoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-chloro-2-trifluoromethyl-2H-1-benzothiopyran-3-carboxylic acid;
 - (S)-6-chloro-2-trifluoromethyl-2H-1-benzothiopyran-3-carboxylic acid;
- 35 6-cyano-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;
 - (S)-6-cyano-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid;

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6-hydroxymethyl-2-(trifluoromethyl)-2H-1-benzopyran-
          3-carboxylic acid;
    6-(difluoromethyl)-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
 5
    2,6-bis(trifluoromethyl)-2H-1-benzopyran-3-
         carboxylic acid;
    5,6,7-trichloro-2-(trifluoromethyl)-2H-1-benzopyran-
         3-carboxylic acid;
    6,7,8-trichloro-2-(trifluoromethyl)-2H-1-benzopyran-
10
         3-carboxylic acid:
    6-(methylthio)-2-(trifluoromethyl)-2H-1-benzopyran-
         3-carboxylic acid:
    6-(pentafluoroethyl)-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
15
    2-(trifluoromethyl)-6-[(trifluoromethyl)thio]-2H-1-
         benzopyran-3-carboxylic acid;
    6,8-dichloro-7-methyl-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
    6-benzoyl-2-(trifluoromethyl)-2H-1-benzopyran-3-
20
         carboxylic acid;
    6-(4-chlorobenzoyl)-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
    6-(4-hydroxybenzoyl)-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
25
    6-phenoxy-2-(trifluoromethyl)-2H-1-benzopyran-3-
         carboxylic acid;
    2-(trifluoromethyl)-6-[4-(trifluoromethyl)phenoxy)-
         2H-1-benzopyran-3-carboxylic acid;
    (S)-2-(trifluoromethyl)-6-[4-
30
         (trifluoromethyl)phenoxy)-2H-1-benzopyran-3-
         carboxylic acid;
    6-(4-methoxyphenoxy)-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
    6-(3-chloro-4-methoxyphenoxy)-2-(trifluoromethyl)-
35
         2H-1-benzopyran-3-carboxylic acid;
    6-(4-chlorophenoxy)-2-(trifluoromethyl)-2H-1-
         benzopyran-3-carboxylic acid;
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8-chloro-2-(trifluoromethyl)-6-[4-(trifluoromethyl)phenoxy]-2H-1-benzopyran-3carboxylic acid; 6-chloro-8-cyano-2-(trifluoromethyl)-2H-1-5 benzopyran-3-carboxylic acid; 6-chloro-8-(2-thienyl)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid; 6-chloro-8-(phenylethynyl)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid; 10 6-chloro-8-[(4-chlorophenyl)ethynyl]-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid; 6-chloro-8-[(4-methoxyphenyl)ethynyl]-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic 15 acid; (S)-6-chloro-8-[(4-methoxyphenyl)ethynyl]-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid; 6-(phenylethynyl)-2-(trifluoromethyl)-2H-1-20 benzopyran-3-carboxylic acid; 6-chloro-8-(4-chlorophenyl)-2-(trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid; 6-chloro-8-phenyl-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid; 25 6-(4-bromophenyl)-2-(trifluoromethyl)-2H-1benzopyran-3-carboxylic acid; 6-chloro-8-(4-methoxyphenyl)-2-trifluoromethyl-2H-1benzopyran-3-carboxylic acid; and 6-(2,2,2-trifluoro-1-hydroxyethyl)-2-30 (trifluoromethyl)-2H-1-benzopyran-3-carboxylic acid.

11. A compound of Claim 2 wherein X is S; wherein R is carboxyl; wherein R¹ is selected from C₁-C₃-perfluoroalkyl; wherein R² is one or more radicals independently selected from hydrido, halo, C₁-C₆-alkyl, phenyl-C₁-C₆-alkyl, phenyl-C₂-C₆-alkynyl, phenyl-C₂-C₆-alkenyl, C₁-C₆-alkoxy, phenyloxy, 5- or

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6-membered heteroaryloxy, phenyl-C₁-C₆-alkyloxy, 5or 6-membered heteroaryl- C_1 - C_6 -alkyloxy, C_1 - C_6 haloalkyl, C_1-C_6 -haloalkoxy, C_1-C_6 -alkylamino, Nphenylamino, N-(phenyl-C,-C,-alkyl)amino, N-5 heteroarylamino, N-(heteroaryl-C₁-C₆-alkylamino, nitro, amino, aminosulfonyl, N-alkylaminosulfonyl, N-arylaminosulfonyl, N-heteroarylaminosulfonyl, N-(phenyl-C,-C,-alkyl)aminosulfonyl, N-(heteroaryl-C,-C₆-alkyl)aminosulfonyl, 5- to 8-membered heterocyclylsulfonyl, C_1-C_6 -alkylsulfonyl, optionally 10 substituted phenyl, optionally substituted 5- or 6membered heteroaryl, phenyl-C,-C,-alkylcarbonyl, heteroarylcarbonyl, phenylcarbonyl, aminocarbonyl, and C_1-C_6 -alkylcarbonyl; wherein the A ring atoms A^1 , 15 A², A³ and A⁴ are independently selected from carbon and nitrogen with the proviso that at least three of A^{1} , A^{2} , A^{3} and A^{4} are carbon; or an isomer or pharmaceutically acceptable salt thereof.

- 20 12. A compound of Claim 11 wherein X is S; wherein R is carboxyl; wherein R" is selected from hydrido and ethenyl; wherein R'is selected from trifluoromethyl and pentafluoroethyl; wherein R2 is one or more radicals independently selected from hydrido, chloro, bromo, fluoro, iodo, methyl, tert-25 butyl, ethenyl, ethynyl, 5-chloro-1-pentynyl, 1pentynyl, 3,3-dimethyl-1-butynyl, benzyl, phenylethyl, phenyl-ethynyl, 4-chlorophenyl-ethynyl, 4-methoxyphenyl-ethynyl, phenylethenyl, methoxy, methylthio, methylsulfinyl, phenyloxy, phenylthio, 30 phenylsulfinyl, pyridyloxy, thienyloxy, furyloxy, phenylmethoxy, methylenedioxy, benzyloxymethyl, trifluoromethyl, difluoromethyl, pentafluoroethyl, trifluoromethoxy, trifluoromethylthio,
- hydroxymethyl, hydroxy-trifluoroethyl,
 methoxymethyl, hydroxyiminomethyl, N-methylamino, Nphenylamino, N-(benzyl)amino, nitro, cyano, amino,
 aminosulfonyl, N-methylaminosulfonyl, N-

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phenylaminosulfonyl, N-furylaminosulfonyl, N(benzyl)aminosulfonyl, N-(furylmethyl)aminosulfonyl,
benzylsulfonyl, phenylethylaminosulfonyl,
furylsulfonyl, methylsulfonyl, phenyl, phenyl

substituted with one or more radicals selected from
chloro, fluoro, bromo, methoxy, methylthio and
methylsulfonyl, benzimidazolyl, thienyl, thienyl
substituted with chloro, furyl, furyl substituted
with chloro, benzylcarbonyl, furylcarbonyl,
phenylcarbonyl, aminocarbonyl, formyl, and
methylcarbonyl; wherein the A ring atoms A¹, A², A³
and A⁴ are carbon; or an isomer or pharmaceutically
acceptable salt thereof.

- 13. A compound of Claim 12 selected from compounds, and their isomers and pharmaceutically-acceptable salts, of the group consisting of
 - 6-chloro-2-trifluoromethyl-2H-1-benzothiopyran-3-carboxylic acid;
 - 6-methyl-2-(trifluoromethyl)-2H-1-benzothiopyran-3-carboxylic acid;
 - 6,8-dimethyl-2-(trifluoromethyl)-2H-1-benzothiopyran-3-carboxylic acid:
- 25 6-(1,1-dimethylethyl)-2-(trifluoromethyl)-2H-1-benzothiopyran-3-carboxylic acid;

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- 7-methyl-2-(trifluoromethyl)-2H-1-benzothiopyran-3-carboxylic acid;
- 6,7-dimethyl-2-(trifluoromethyl)-2H-1-benzothiopyran-3-carboxylic acid;
- 8-methyl-2-(trifluoromethyl)-2H-1-benzothiopyran-3carboxylic acid;
- 2-(trifluoromethyl)-2H-1-benzothiopyran-3-carboxylic acid;
- 35 6-chloro-7-methyl-2-(trifluoromethyl)-2H-1benzothiopyran-3-carboxylic acid;
 - 7-chloro-2-(trifluoromethyl)-2H-1-benzothiopyran-3-carboxylic acid;

- 6,7-dichloro-2-(trifluoromethyl)-2H-1-benzothiopyran-3-carboxylic acid;
- 2-(trifluoromethyl)-6-[(trifluoromethyl)thio]-2H-1benzopyran-3-carboxylic acid; and
- 6,8-dichloro-2-trifluoromethyl-2H-1-benzothiopyran-3-carboxylic acid.
- 14. A compound of Claim 2 wherein X is NR*;
 wherein R* is selected from hydrido, C₁-C₃-alkyl,
 10 phenyl-C₁-C₃-alkyl, acyl and carboxy-C₁-C₃-alkyl;
 wherein R is carboxyl; wherein R* is selected from C₁-

C,-perfluoroalkyl; wherein R² is one or more radicals independently selected from hydrido, halo, C₁-C₆-alkyl, phenyl-C₂-C₆-alkynyl,

- phenyl-C₂-C₆-alkenyl, C₁-C₆-alkoxy, phenyloxy, 5- or 6-membered heteroaryloxy, phenyl-C₁-C₆-alkyloxy, 5- or 6-membered heteroaryl-C₁-C₆-alkyloxy, C₁-C₆-haloalkyl, C₁-C₆-haloalkoxy, C₁-C₆-alkylamino, N-phenylamino, N-(phenyl-C₁-C₆-alkyl) amino, N-heteroarylamino, N-
- heterocyclylsulfonyl, C₁-C₆-alkylsulfonyl, optionally substituted phenyl, optionally substituted 5- or 6-membered heteroaryl, phenyl-C₁-C₆-alkylcarbonyl, heteroarylcarbonyl, phenylcarbonyl, aminocarbonyl, and C₁-C₆-alkylcarbonyl; wherein the A ring atoms A¹,
- A², A³ and A⁴ are independently selected from carbon and nitrogen with the proviso that at least three of A¹, A², A³ and A⁴ are carbon; or an isomer or pharmaceutically acceptable salt thereof.
- 35
 15. A compound of Claim 14 wherein X is NR*;
 wherein R* is selected from hydrido, methyl, ethyl,
 (4-trifluoromethyl)benzyl, (4-chloromethyl)benzyl,
 (4-methoxy)benzyl, (4-cyano)benzyl, and (4-

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nitro)benzyl; wherein R is carboxyl; wherein R" is selected from hydrido and ethenyl; wherein R'is selected from trifluoromethyl and pentafluoroethyl; wherein R'is one or more radicals independently selected from hydrido, chloro, bromo, fluoro, iodo, methyl, tert-butyl, ethenyl, ethynyl, 5-chloro-1pentynyl, 1-pentynyl, 3,3-dimethyl-1-butynyl, benzyl, phenylethyl, phenyl-ethynyl, 4-chlorophenyl-ethynyl, 4-methoxyphenyl-ethynyl, phenylethenyl, methoxy, methylthio, methylsulfinyl, phenyloxy, phenylthio, 10 phenylsulfinyl, pyridyloxy, thienyloxy, furyloxy, phenylmethoxy, methylenedioxy, benzyloxymethyl, trifluoromethyl, difluoromethyl, pentafluoroethyl, trifluoromethoxy, trifluoromethylthio, hydroxymethyl, hydroxy-trifluoroethyl, methoxymethyl, 15 hydroxyiminomethyl, N-methylamino, N-phenylamino, N-(benzyl)amino, nitro, cyano, amino, aminosulfonyl, Nmethylaminosulfonyl, N-phenylaminosulfonyl, Nfurylaminosulfonyl, N-(benzyl)aminosulfonyl, N-

- (furylmethyl)aminosulfonyl, benzylsulfonyl, phenylethylaminosulfonyl, furylsulfonyl, methylsulfonyl, phenyl, phenyl substituted with one or more radicals selected from chloro, fluoro, bromo, methoxy, methylthio and methylsulfonyl,
- benzimidazolyl, thienyl, thienyl substituted with chloro, furyl, furyl substituted with chloro, benzylcarbonyl, furylcarbonyl, phenylcarbonyl, aminocarbonyl, formyl, and methylcarbonyl; wherein the A ring atoms A¹, A², A³ and A⁴ are carbon; or an isomer or pharmaceutically acceptable salt thereof.
 - 16. A compound of Claim 15 selected from compounds, and their isomers and pharmaceutically-acceptable salts, of the group consisting of

6-chloro-1,2-dihydro-2-(trifluoromethyl)-3-quinolinecarboxylic acid;

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6,8-dichloro-1,2-dihydro-2-(trifluoromethyl)-3-
quinolinecarboxylic acid;
6,7-difluoro-1,2-dihydro-2-(trifluoromethyl)-3-
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- 6,7-difluoro-1,2-dihydro-2-(trifluoromethyl)-3quinolinecarboxylic acid;
- 5 6-iodo-1,2-dihydro-2-(trifluoromethyl)-3-quinolinecarboxylic acid;

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- 6-bromo-1,2-dihydro-2-(trifluoromethy1)-3-quinolinecarboxylic acid;
- 1,2-dihydro-6-(trifluoromethoxy)-2-(trifluoromethyl)-3-quinolinecarboxylic acid:
- 6-(trifluoromethyl)-1,2-dihydro-2-(trifluoromethyl)-3-quinolinecarboxylic acid;
- 6-cyano-1,2-dihydro-2-(trifluoromethyl)-3-quinolinecarboxylic acid:
- 6-chloro-1,2-dihydro-1-methyl-2-(trifluoromethyl)-3quinolinecarboxylic acid;
 - 6-chloro-1,2-dihydro-2-(trifluoromethyl)-1-[[4-(trifluoromethyl)phenyl]methyl]-3-quinolinecarboxylic acid;
- 6-chloro-1-[(4-chlorophenyl)methyl]-1,2-dihydro-2(trifluoromethyl)-3-quinolinecarboxylic acid;
 - 6-chloro-1,2-dihydro-2-(trifluoromethyl)-1-[[4-(methoxy)phenyl]methyl]-3-quinolinecarboxylic acid;
- 25 6-chloro-1-[(4-cyanophenyl)methyl]-1,2-dihydro-2-(trifluoromethyl)-3-quinolinecarboxylic acid;
 - 6-chloro-1,2-dihydro-1-[(4-nitrophenyl)methyl]-2-(trifluoromethyl)-3-quinolinecarboxylic acid;
 - 6-chloro-1,2-dihydro-1-ethyl-2-(trifluoromethyl)-3-quinolinecarboxylic acid; and
 - (S)-6-chloro-1,2-dihydro-2-(trifluoromethyl)-3-quinolinecarboxylic acid.
- 17. A compound of Claim 2 wherein X is selected from 0, S and NR*; wherein R* is selected from hydrido, C₁-C₃-alkyl, phenyl-C₁-C₃-alkyl, acyl and carboxy-C₁-C₃-alkyl; wherein R is selected from carboxyl; wherein R' is selected from C₁-C₃-

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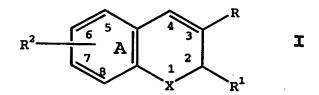
perfluoroalkyl; wherein the A ring atoms A^1 , A^2 , A^3 and A^4 are independently selected from carbon and nitrogen with the proviso that at least three of A^1 , A^2 , A^3 and A^4 are carbon; and wherein R^2 together with ring A forms a naphthyl or quinolyl radical; or an isomer or pharmaceutically acceptable salt thereof.

- 18. A compound of Claim 17 wherein X is selected from 0, S and NR*; wherein R* is selected from 10 hydrido, methyl, ethyl, (4-trifluoromethyl)benzyl, (4-chloromethyl)benzyl, (4-methoxy)benzyl, and (4-cyano)benzyl, (4-nitro)benzyl; wherein R is carboxyl; wherein R* is selected from hydrido and ethenyl; wherein R* is selected from trifluoromethyl and 15 pentafluoroethyl; wherein the A ring atoms A¹, A², A³ and A⁴ are independently selected from carbon and nitrogen with the proviso that at least three of A¹, A², A³ and A⁴ are carbon; or wherein R² together with ring A forms a naphthyl, or quinolyl radical; or an isomer or pharmaceutically acceptable salt thereof.
 - 19. A compound of Claim 18 selected from compounds, and their isomers and pharmaceutically-acceptable salts, of the group consisting of
 - 2-trifluoromethyl-2H-naphtho[1,2-b]pyran-3-carboxylic acid;
 - 2-trifluoromethyl-3H-naphtho[2,1-b]pyran-3-carboxylic
 acid;
- 30 2-trifluoromethyl-2H-naphtho[2,3-b]pyran-3-carboxylic acid;
 - 5-(hydroxymethyl)-8-methyl-2-(trifluoromethyl)-2H-pyrano[2,3-c]pyridine-3-carboxylic acid;
 - 6-(trifluoromethyl)-6h-1,3-dioxolo[4,5-
- g][1]benzopyran-7-carboxylic acid; and

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3-(trifluoromethyl)-3H-benzofuro[3,2-f][1]benzopyran-2-carboxylic acid.

20. A compound of Formula I



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wherein X is selected from O or S or NR*;
 wherein R* is alkyl;

wherein R is selected from carboxyl, aminocarbonyl, alkylsulfonylaminocarbonyl and alkoxycarbonyl;

wherein R¹ is selected from haloalkyl, alkyl, aralkyl, cycloalkyl and aryl optionally substituted with one or more radicals selected from alkylthio, nitro and alkylsulfonyl; and

wherein R² is one or more radicals selected from hydrido, halo, alkyl, aralkyl, alkoxy, aryloxy, heteroaryloxy, aralkyloxy, heteroaralkyloxy, haloalkyl, haloalkoxy, alkylamino, arylamino, aralkylamino, heteroarylamino, heteroarylalkylamino, nitro, amino, aminosulfonyl, alkylaminosulfonyl, arylaminosulfonyl, heteroarylaminosulfonyl, aralkylaminosulfonyl, heteroaralkylaminosulfonyl, heterocyclosulfonyl, alkylsulfonyl, optionally substituted aryl, optionally substituted heteroaryl, aralkylcarbonyl, heteroarylcarbonyl, arylcarbonyl, aminocarbonyl, and alkylcarbonyl;

or wherein R² together with ring A forms a naphthyl radical;

or an isomer or pharmaceutically acceptable salt 30 thereof.

21. Compound of Claim 20 wherein X is oxygen or sulfur; wherein R is selected from carboxyl, lower alkyl, lower aralkyl and lower alkoxycarbonyl;

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wherein R¹ is selected from lower haloalkyl, lower cycloalkyl and phenyl; and wherein R² is one or more radicals selected from hydrido, halo, lower alkyl, lower alkoxy, lower haloalkyl, lower haloalkoxy, lower alkylamino, nitro, amino, aminosulfonyl, lower alkylaminosulfonyl, 5- or 6- membered heteroarylalkylaminosulfonyl, lower aralkylaminosulfonyl, 5- or 6- membered nitrogen containing heterocyclosulfonyl, lower alkylsulfonyl, optionally substituted phenyl, lower aralkylcarbonyl, and lower alkylcarbonyl; or wherein R² together with ring A forms a naphthyl radical; or an isomer or pharmaceutically acceptable salt thereof.

- 22. Compound of Claim 21 wherein X is oxygen or 15 sulfur; wherein R is carboxyl; wherein R is lower haloalkyl; and wherein R2 is one or more radicals selected from hydrido, halo, lower alkyl, lower haloalkyl, lower haloalkoxy, lower alkylamino, amino, aminosulfonyl, lower alkylaminosulfonyl, 5- or 6-20 membered heteroarylalkylaminosulfonyl, lower aralkylaminosulfonyl, lower alkylsulfonyl, 6membered nitrogen containing heterocyclosulfonyl, optionally substituted phenyl, lower aralkylcarbonyl, and lower alkylcarbonyl; or wherein R2 together with 25 ring A forms a naphthyl radical; or an isomer or pharmaceutically acceptable salt thereof.
- 23. Compound of Claim 22 wherein R is carboxyl;

 wherein R¹ is selected from fluoromethyl,
 chloromethyl, dichloromethyl, trichloromethyl,
 pentafluoroethyl, heptafluoropropyl, difluoroethyl,
 difluoropropyl, dichloroethyl, dichloropropyl,
 difluoromethyl, and trifluoromethyl; and wherein R² is
 one or more radicals selected from hydrido, chloro,
 fluoro, bromo, iodo, methyl, ethyl, isopropyl, tertbutyl, butyl, isobutyl, pentyl, hexyl, methoxy,
 ethoxy, isopropyloxy, tertbutyloxy, trifluoromethyl,

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difluoromethyl, trifluoromethoxy, amino, N,N-dimethylamino, N,N-diethylamino, N-phenylmethylaminosulfonyl, N-phenylethylaminosulfonyl, N-(2-

- furylmethyl)aminosulfonyl, nitro, N,N-dimethylaminosulfonyl, aminosulfonyl, N-methylaminosulfonyl, N-ethylsulfonyl, 2,2-dimethylaminosulfonyl, N,N-dimethylaminosulfonyl, N-(2-
- methylpropyl)aminosulfonyl, N-morpholinosulfonyl, methylsulfonyl, benzylcarbonyl, 2,2dimethylpropylcarbonyl, phenylacetyl and phenyl; or wherein R² together with ring A forms a naphthyl radical; or an isomer or pharmaceutically acceptable salt thereof.
- 24. Compound of Claim 23 wherein R is carboxyl; wherein R'is trifluoromethyl or pentafluorethyl; and wherein R2 is one or more radicals selected from hydrido, chloro, fluoro, bromo, iodo, methyl, ethyl, 20 isopropyl, tert-butyl, methoxy, trifluoromethyl, trifluoromethoxy, N-phenylmethylaminosulfonyl, Nphenylethylaminosulfonyl, N-(2furylmethyl) aminosulfonyl, N, N-dimethylaminosulfonyl, 25 N-methylaminosulfonyl, N-(2,2dimethylethyl)aminosulfonyl, dimethylaminosulfonyl, 2-methylpropylaminosulfonyl, N-morpholinosulfonyl, methylsulfonyl, benzylcarbonyl, and phenyl; or wherein R² together with ring A forms a naphthyl 30 radical; or an isomer or pharmaceutically acceptable salt thereof.
- 25. A compound of Claim 24 selected from compounds, and their isomers and pharmaceutically35 acceptable salts, of the group consisting of 6-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

- 6-chloro-7-methyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 8-(1-methylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 5 6-chloro-7-(1,1-dimethylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-chloro-8-(1-methylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 2-trifluoromethyl-3H-naphthopyran-3-carboxylic acid;
- 7-(1,1-dimethylethyl)-2-trifluoromethyl-2H-1benzopyran-3-carboxylic acid;
 - 6-bromo-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 8-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

- 6-trifluoromethoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 5,7-dichloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 8-phenyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 7,8-dimethyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 6,8-bis(dimethylethyl)-2-trifluoromethyl-2H-1benzopyran-3-carboxylic acid;
 - 7-(1-methylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 7-phenyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 6-chloro-7-ethyl-2-trifluoromethyl-2H-1-benzopyran-3carboxylic acid;

- 6-chloro-8-ethyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 6-chloro-7-phenyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 5 6,7-dichloro-2-trifluoromethyl-2H-1-benzopyran-3carboxylic acid;
 - 6,8-dichloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 2-trifluoromethyl-3H-naptho[2,1-b]pyran-3-carboxylic 10 acid;
 - 6-chloro-8-methyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 8-chloro-6-methyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 8-chloro-6-methoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-bromo-8-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 8-bromo-6-fluoro-2-trifluoromethyl-2H-1-benzopyran-3-20 carboxylic acid;
 - 8-bromo-6-methyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 8-bromo-5-fluoro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 25 6-chloro-8-fluoro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-bromo-8-methoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 6-[[(phenylmethyl)amino]sulfonyl]-2-trifluoromethyl-30 2H-1-benzopyran-3-carboxylic acid;
 - 6-[(dimethylamino)sulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

- 6-[(methylamino)sulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 6-[(4-morpholino)sulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 5 6-[(1,1-dimethylethyl)aminosulfonyl]-2trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-[(2-methylpropyl)aminosulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 6-methylsulfonyl-2-trifluoromethyl-2H-1-benzopyran-3carboxylic acid;
 - 8-chloro-6-[[(phenylmethyl)amino]sulfonyl]-2trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-phenylacetyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 15 6,8-dibromo-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 8-chloro-5,6-dimethyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6,8-dichloro-(S)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-benzylsulfonyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-[[N-(2-furylmethyl)amino]sulfonyl]-2trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 25 6-[[N-(2-phenylethyl)amino]sulfonyl]-2trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
 - 6-iodo-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 7-(1,1-dimethylethyl)-2-pentafluoroethyl-2H-1-30 benzopyran-3-carboxylic acid: and
 - 6-chloro-2-trifluoromethyl-2H-1-benzothiopyran-3-carboxylic acid.
 - 26. A compound of Formula II

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$$R^4$$
 CO_2H
 R^5
 R^6
 R^3
 CO_2H
 R^5
 R^6

wherein X is O or S; wherein R2 is lower haloalkyl;

wherein R3 is selected from hydrido, and halo; wherein R4 is selected from hydrido, halo, lower alkyl, lower haloalkoxy, lower alkoxy, lower aralkylcarbonyl, lower dialkylaminosulfonyl, lower alkylaminosulfonyl, lower aralkylaminosulfonyl, lower heteroaralkylaminosulfonyl, and 5- or 6- membered 10 nitrogen-containing heterocyclosulfonyl;

wherein R³ is selected from hydrido, lower alkyl, halo, lower alkoxy, and aryl; and

wherein R6 is selected from hydrido, halo, lower alkyl, lower alkoxy, and aryl;

or an isomer or pharmaceutically acceptable salt thereof.

27. A compound of Formula IIa:

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wherein R'is selected from hydrido, lower alkyl, lower hydroxyalkyl, lower alkoxy and halo;

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wherein R⁴ is selected from hydrido, halo, lower alkyl, lower alkylthio, lower haloalkyl, amino, aminosulfonyl, lower alkylsulfonyl, lower alkylsulfinyl, lower alkoxyalkyl, lower alkylcarbonyl, formyl, cyano, lower haloalkylthio, substituted or unsubstituted phenylcarbonyl, lower haloalkoxy, lower alkoxy, lower aralkylcarbonyl, lower dialkylaminosulfonyl, lower aralkylaminosulfonyl, lower aralkylaminosulfonyl, lower

- heteroaralkylaminosulfonyl, 5- or 6- membered heteroaryl, lower hydrooxyalkyl, optionally substituted phenyl and 5- or 6- membered nitrogen containing heterocyclosulfonyl; wherein R⁵ is selected from hydrido, lower alkyl, halo, lower haloalkyl,
- lower alkoxy, and phenyl; and wherein R⁶ is selected from hydrido, halo, cyano, hydrooxyiminomethyl, lower hydroxyalkyl, lower alkynyl, phenylalkynyl, lower alkyl, lower alkoxy, formyl and phenyl; or an isomer or pharmaceutically acceptable salt thereof.
 - 28. Compound of Claim 27 wherein R³ is selected from hydrido, and chloro; wherein R⁴ is selected from chloro, methyl, tert-butyl, methylthio,
- trifluoromethyl, difluoromethyl, pentafluoromethyl, trifluoromethylsulfide, trifluoromethooxy, cyano, substituted or unsubstituted phenylcarbonyl, and substituted or unsubstituted phenyl; wherein R⁵ is selected from hydrido, methyl, tert-butyl, chloro;
- and wherein R'is selected from hydrido, chloro, thienyl, hydroxyiminomethyl, substituted or unsubstituted phenylethynyl, and substituted or unsubstituted phenyl; or an isomer or pharmaceutically acceptable salt thereof.

29. A compound of Formula IIb:

wherein R'is selected from hydrido, lower alkyl, lower hydroxyalkyl, lower alkoxy and halo; wherein R' is selected from hydrido, halo, lower alkyl, lower alkylthio, lower haloalkyl, amino, aminosulfonyl, lower alkylsulfonyl, lower alkylsulfinyl, lower alkoxyalkyl, lower alkylcarbonyl, formyl, cyano, lower haloalkylthio, substituted or unsubstituted phenylcarbonyl, lower haloalkoxy, lower alkoxy, lower 10 aralkylcarbonyl, lower dialkylaminosulfonyl, lower alkylaminosulfonyl, lower aralkylaminosulfonyl, lower heteroaralkylaminosulfonyl, 5- or 6- membered heteroaryl, lower hydrooxyalkyl, optionally 15 substituted phenyl and 5- or 6- membered nitrogen containing heterocyclosulfonyl; wherein R5 is selected from hydrido, lower alkyl, halo, lower haloalkyl, lower alkoxy, and phenyl; and wherein R'is selected from hydrido, halo, cyano, hydrooxyiminomethyl, lower hydroxyalkyl, lower alkynyl, phenylalkynyl, lower 20 alkyl, lower alkoxy, formyl and phenyl; or an isomer or pharmaceutically acceptable salt thereof.

30. Compound of Claim 29 wherein R'is selected from hydrido, and chloro; wherein R'is selected from chloro, methyl, tert-butyl, methylthio, trifluoromethyl, difluoromethyl, pentafluoromethyl, trifluoromethylsulfide, trifluoromethooxy, cyano, substituted or unsubstituted phenylcarbonyl, and substituted or unsubstituted phenyl; wherein R'is selected from hydrido, methyl, tert-butyl, chloro;

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and wherein R'is selected from hydrido, chloro, thienyl, hydroxyiminomethyl, substituted or unsubstituted phenylethynyl, and substituted or unsubstituted phenyl; or an isomer or pharmaceutically acceptable salt thereof.

31. A compound of Formula IIc:

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wherein R is selected from hydrido and lower aralkyl; wherein R'is selected from hydrido, lower alkyl, lower hydroxyalkyl, lower alkoxy and halo; wherein R' is selected from hydrido, halo, lower alkyl, lower alkylthio, lower haloalkyl, amino, aminosulfonyl, 15 lower alkylsulfonyl, lower alkylsulfinyl, lower alkoxyalkyl, lower alkylcarbonyl, formyl, cyano, lower haloalkylthio, substituted or unsubstituted phenylcarbonyl, lower haloalkoxy, lower alkoxy, lower aralkylcarbonyl, lower dialkylaminosulfonyl, lower alkylaminosulfonyl, lower aralkylaminosulfonyl, lower heteroaralkylaminosulfonyl, 5- or 6- membered heteroaryl, lower hydrooxyalkyl, optionally substituted phenyl and 5- or 6- membered nitrogen containing heterocyclosulfonyl; wherein R' is selected from hydrido, lower alkyl, halo, lower haloalkyl, lower alkoxy, and phenyl; and wherein R'is selected from hydrido, halo, cyano, hydrooxyiminomethyl, lower hydroxyalkyl, lower alkynyl, phenylalkynyl, lower alkyl, lower alkoxy, formyl and phenyl;

or an isomer or pharmaceutically acceptable salt thereof.

- 32. Compound of Claim 31 wherein R is hydrido; wherein R'is selected from hydrido, and chloro; wherein R4 is selected from chloro, methyl, tertbutyl, methylthio, trifluoromethyl, difluoromethyl, pentafluoromethyl, trifluoromethylsulfide, trifluoromethooxy, cyano, substituted or unsubstituted phenylcarbonyl, and substituted or 10 unsubstituted phenyl; wherein R⁵ is selected from hydrido, methyl, tert-butyl, chloro; and wherein R'is selected from hydrido, chloro, thienyl, hydroxyiminomethyl, substituted or unsubstituted phenylethynyl, and substituted or unsubstituted 15 phenyl; or an isomer or pharmaceutically acceptable salt thereof.
- 33. A method of treating a cyclooxygenase-2
 mediated disorder in a subject, said method
 comprising treating the subject having or susceptible
 to said disorder with a therapeutically-effective
 amount of a compound of Claims 1-31; or a
 pharmaceutically-acceptable salt thereof.

34. The method of Claim 33 wherein the cyclooxygenase-2 mediated disorder is inflammation.

35. The method of Claim 33 wherein the cyclooxygenase-2 mediated disorder is arthritis.

- 36. The method of Claim 33 wherein the cyclooxygenase-2 mediated disorder is pain.
- 35 37. The method of Claim 33 wherein the cyclooxygenase-2 mediated disorder is fever.

38. A pharmaceutical composition comprising a therapeutically-effective amount of a compound, said compound selected from a family of compounds of Claims 1-31; or a pharmaceutically-acceptable salt thereof.

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 C07D311/58 C07D335/06 C07D215/54 C07D311/92 C07D493/04 C07D409/04 C07D491/04 A61K31/35 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C07D A61K IPC 6 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category * Relevant to claim No. X J.BUNTING ET AL.: "KINETIC A. 1,14,15, THERMODYNAMIC CONTROL OF PSEUDOBASE FORMAT. FROM C-3 SUBSTIT. 1-METHYLQUINOLINIUM CATIONS." CANADIAN JOURNAL OF CHEMISTRY., vol. 62, no. 7, 1984, OTTAWA pages 1301-1307, XP002071264 see page 1301 - page 1305; example 6 A EP 0 412 939 A (CIBA-GEIGY) 13 February 1-31,38cited in the application see claims -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. * Special categories of cited documents: T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of theinternational search Date of mailing of the international search report 3 Q, 07. 9**8** 13 July 1998 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Francois, J Fax: (+31-70) 340-3016

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C (Cootless	ntion) DOCUMENTS CONSIDERED TO BE RELEVANT	FC1/03 90	
ategory s	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
A	LOIC RENE,R.ROYER: "SUR LA SYNTHESE DE DELTA-3-CHROMENES SUBSTITUES" EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY.CHIMICA THERAPEUTICA., vol. 10, no. 1, January 1975, PARIS FR, pages 72-78, XP002071265 cited in the application see page 72 - page 74; table 1		1-31,38
A	CHEMICAL ABSTRACTS, vol. 125, no. 25, 1996 Columbus, Ohio, US; abstract no. 328458j, page 1371; column 1; XP002071266 see abstract & UKHIN,L. ET AL.: "FORMATION OF BENZOFURAN AND 2H-CHROMENES" IZV. AKAD. NAUK. SER. KHIM., vol. 5, 1996, RUSSIA, pages 1222-1228,		1
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mational application No.

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Box !	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	mational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: 33-37 because they relate to subject matter not required to be searched by this Authority, namely: Remark: Although claims 33-37 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Roma	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

information on patent family members

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